

Our Ref/WPCT03006

Claims

1. A microstrip antenna equipped with a nearly flat plate-like radiating conductor, a nearly flat plate-like ground conductor having larger area than the radiating conductor, and a dielectric substrate set between the radiating conductor and the ground conductor, and one terminal of a feeding cable is connected to the radiating conductor, and the other terminal is connected to the ground conductor, which microstrip antenna is characterized that the radiating conductor and the ground conductor are nearly cloth-like substances having flexibility and conductivity, and also the dielectric substrate is a nearly cloth-like substance having flexibility and insulation property, and the connection of the terminal of the feeding cable to the radiating conductor or the ground conductor is attained by soldering through a conductive medium.

2. The microstrip antenna according to claim 1,

wherein the conductive medium is a metallic plate-like substance adhered with conductive adhesives at a surface opposing to the radiating conductor or the ground conductor.

3. The microstrip antenna according to claim 2,

wherein the metallic plate-like substance is made of copper as a main component.

4. The microstrip antenna according to claim 1,

wherein the conductive medium is a metal coating set on the heat resistant radiating conductor or the ground conductor.

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5. The microstrip antenna according to claim 4,
wherein the metal coating is made of copper as a main
component.

6. The microstrip antenna according to claims 1 to 5,
wherein the terminal of the feeding cable connected to
the radiating conductor is a core wire which is an inner
conductor of the feeding connector, as well as the terminal of
the feeding cable connected to the ground conductor is an outer
conductor of the feeding connector, and the core wire passes
through a pore part set in the ground conductor, and connected
to the radiating conductor without contacted with the ground
conductor.

7. The microstrip antenna according to claims 1 to 6,
wherein the radiating conductor or the ground conductor
is a cloth woven or compressed with a synthetic resin.

8. The microstrip antenna according to claim 7,
wherein the cloth is woven or compressed by a polyester
fiber which is coated with copper and covered with a surface
nickel layer on the copper coating.

9. The microstrip antenna according to claim 7,
wherein the cloth is woven or compressed by an aramid
fiber which is coated with copper and covered with a surface
nickel layer on the copper coating

10. The microstrip antenna according to claims 1 to 9,

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wherein the dielectric substrate is made of felt.

11. The microstrip antenna according to claims 1 to 9,
wherein the dielectric substrate is made of clothing
fabric.

12. Clothes attached with a microstrip antenna,
characterized that the microstrip antenna according to claims 1
to 11 is attached at the exterior surface of the clothes.